

SIDE TWO

Operator Name Phillips Petroleum Co. Lease Name Bates Unit Well# 4-5 SEC. 36 TWP. 30 RGE. 2
 Sumner County, Kansas East West

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
LKC	3087'	
Marmaton	3398'	
Cherokee	3581'	
Miss Chert	3718'	
Miss Lime	3743'	
TD	3840'	

CASING RECORD new used

Report all strings set - conductor, surface, intermediate, production, etc.

Purpose of string	size hole drilled	size casing set (in O.D.)	weight lbs/ft.	setting depth	type of cement	# sacks used	type and percent additives
Surface	12 1/4"	8.5/8"	24#	450'	Light Class A	100	10% Gilsonite
				AND		340	2% gel, 3% CACI, 1/2# Flocele/sk
Production	7.7/8"	5 1/2"	15.5#	3838'	50-50 Pos	200	18% salt, 3/4%

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
2 HPF	3787-92', 3762-66', 3742-45'	500 gal 15% NE acid w/clay stab	3787-92'
4 HPF	3748-50', 3737-39'	1500 gal 7.5% NE ac w/clay stab & 300# divert agent	3737-39', 3742-45', 3748-51'

TUBING RECORD

size 2 7/8" set at 3804' packer at _____ Liner Run Yes No

Date of First Production 2-29-85

Producing method

flowing pumping gas lift Other (explain)

Estimated Production Per 24 Hours

20

Bbls

MCF

79

Bbls

CFRB

Gravity

42.00

METHOD OF COMPLETION

Disposition of gas: vented sold used on lease
 open hole perforation other (specify) _____
 Dually Completed. Commingled

PRODUCTION INTERVAL

3787-92' - 3762-66'
 3748-50' - 3737-39'
 3742-45'

